

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A computer-implemented method for validating computer code, the method being executed by a computer and comprising:
providing a computer program by defining at least one set of definition instructions, at least one set of implementation instructions and at least a script code section, wherein the set of definition instructions includes a class having an object with a runtime function, and the set of implementation instructions includes an interface having a method, wherein the class having the object is associated with a provider class;

validating the set of definition instructions and the set of implementation instructions ~~using a validation tool, the validation tool~~ by determining whether the class is in compliance with the interface; ~~[[and]]~~

determining whether the method of the interface can be used to execute the runtime function when the object is called during runtime execution of the computer program, wherein the determination is made before runtime execution of the computer program and during compilation of the computer program;

determining whether the object is relying on a feature of the class that is not promised by the class;

determining whether the interface includes an additional method that is called during runtime execution of the computer program;

verifying whether implementation of the provider class is in compliance with a promise of the provider class, the verification being performed by using the interface;

generating a symbol table based on the script code section, the symbol table including a variable used by the script code section; and

validating the script code section by comparing the symbol table with using the set of implementation instructions.

2. (Previously Presented) The method according to claim 1, wherein the set of definition instructions are definition modules having a plurality of classes and the set of implementation instructions are implementation modules having a plurality of interfaces.

3. (Currently Amended) The method according to claim 1, wherein the set of definition instructions are converted into classes, the class having the object is converted into a new class, and the set of implementation instructions are converted into interfaces.

4. (Previously Presented) The method according to claim 3, wherein the set of definition instructions and the set of implementation instructions are described in XML.

5. (Currently Amended) The method according to claim ~~[[4]]~~ 1, wherein the ~~classes and the interfaces are~~ class having the object and the interface having the method are defined in Java language.

6. (Previously Presented) The method according to claim 1, wherein the set of definition instructions is defined in a tree structure.

7. (Previously Presented) The method according to claim 1, wherein the script code section is JavaScript.

8. (Previously Presented) The method according to claim 1, wherein validating the script code section comprises generating a symbol table by executing the code section in an interpreter, and comparing the symbol table with the implementation instructions.

9. (Cancelled).

10. (Previously Presented) The method according to claim 1, wherein the set of implementation instructions is defined in a tree structure.

11. (Previously Presented) The method according to claim 1, wherein the set of definition instructions is defined in a first tree structure and the set of implementation instructions is defined in a second tree structure.

12. (Currently Amended) A computer readable medium that is readable by a processor, the computer readable medium comprising a set of instructions executable

by the processor to perform a method for validating computer code, the method comprising:

defining a set of definition instructions including a class having an object with a runtime function, wherein the class having the object is associated with a provider class;

defining a set of implementation instructions including an interface having a method;

defining a script code section;

validating the set of definition instructions and the set of implementation instructions ~~using a validation tool~~ by determining whether the class is in compliance with the interface; [[and]]

determining whether the method of the interface can be used to execute the runtime function when the object is called during runtime execution of the computer code, wherein the determination is made before runtime execution of the computer code and during compilation of the computer code;

validating the set of definition instructions and the set of implementation instructions ~~using a validation tool, the validation tool~~ by determining whether the class is in compliance with the interface; [[and]]

determining whether the method of the interface can be used to execute the runtime function when the object is called during runtime execution of the computer program, wherein the determination is made before runtime execution of the computer program and during compilation of the computer program;

determining whether the object is relying on a feature of the class that is not promised by the class;

determining whether the interface includes an additional method that is called during runtime execution of the computer program;

verifying whether implementation of the provider class is in compliance with a promise of the provider class, the verification being performed by using the interface;

generating a symbol table based on the script code section, the symbol table including a variable used by the script code section; and

validating the script code section by comparing the symbol table with using the set of implementation instructions.

13. (Previously Presented) The computer readable medium according to claim 12, wherein the set of definition instructions are definition modules having a plurality of classes and the set of implementation instructions are implementation modules having a plurality of interfaces.

14. (Currently Amended) The computer readable medium according to claim 12, wherein the set of definition instructions are converted into classes, the class having the object is converted into a new class, and the set of implementation instructions are converted into interfaces.

15. (Previously Presented) The computer readable medium according to claim 14, wherein the set of definition instructions and the set of implementation instructions are described in XML.

16. (Currently Amended) The computer readable medium according to claim 12, wherein the ~~classes and the interfaces are~~ class having the object and the interface having the method are defined in Java language.

17. (Previously Presented) The computer readable medium according to claim 12, wherein the set of definition instructions is defined in a tree structure.

18. (Previously Presented) The computer readable medium according to claim 12, wherein the script code section is JavaScript.

19. (Previously Presented) The computer readable medium according to claim 12, wherein validating the script code section comprises generating a symbol table by executing the code section in an interpreter, and comparing the symbol table with the implementation instructions.

20. (Previously Presented) The computer readable medium according to claim 12, wherein the set of implementation instructions is defined in a tree structure.

21. (Previously Presented) The computer readable medium according to claim 12, wherein the set of definition instructions is defined in a first tree structure and the set of implementation instructions is defined in a second tree structure.